

# LANL COURSE SYLLABUS

<i>Monday</i>		
Morning	LANL Badge Office	Obtain badge reader access at LANL facilities
	Module 0	Welcome and Introduction to LANL
	Module 1	NCS History, NCS Fundamentals, Time Behavior of Fissioning Systems
Afternoon	Module 2	NCS Parameters
	Module 3	Process Criticality Accident Discussion
	Module 4 – Part I	Hand Calculation Methods – Part I (Introduction and Bucking Conversions)
		Breakout Meetings – Evaluation Assignments
<i>Tuesday</i>		
Morning	Module 5	Overview of ANSI/ANS Series 8 Standards
	Module 6	DOE Requirements and National Standards, and the National DOE Nuclear Criticality Safety Program
Afternoon	Module 7	Criticality Safety Evaluations
		Breakout Meetings – Evaluation Development

# LANL COURSE SYLLABUS – continued

<i>Wednesday</i>		
Morning	Evaluation Development	Meet at TA-55 Visitor Access Center
	Evaluation Development	PF-4 tour
Afternoon	Module 4 _ Part 2	Hand Calculation Methods – Part II (Array Methods and Introduction to the Criticality Safety Index)
	Evaluation Development	Breakout Meetings – Evaluation Assignments
<i>Thursday</i>		
Morning	Module 8	Human Factors and Equipment Reliability
	Module 9	Interpretation and Application of Non-Destructive Analyses Methods and Results to Nuclear Criticality Safety Evaluations
Afternoon	Evaluation Development	Breakout Meetings – Evaluation Assignments

# ***LANL COURSE SYLLABUS – continued***

<i>Friday</i>		
Morning	Evaluation Development	Breakout Meetings – Evaluation Assignments and Presentations
Afternoon	Module 10	DOE Requirements and National Standards, and the National DOE Nuclear Criticality Safety Program
	Optional Modules	Criticality Safety Process Accidents Hand Calculation Methods – Part III (Diffusion Theory)